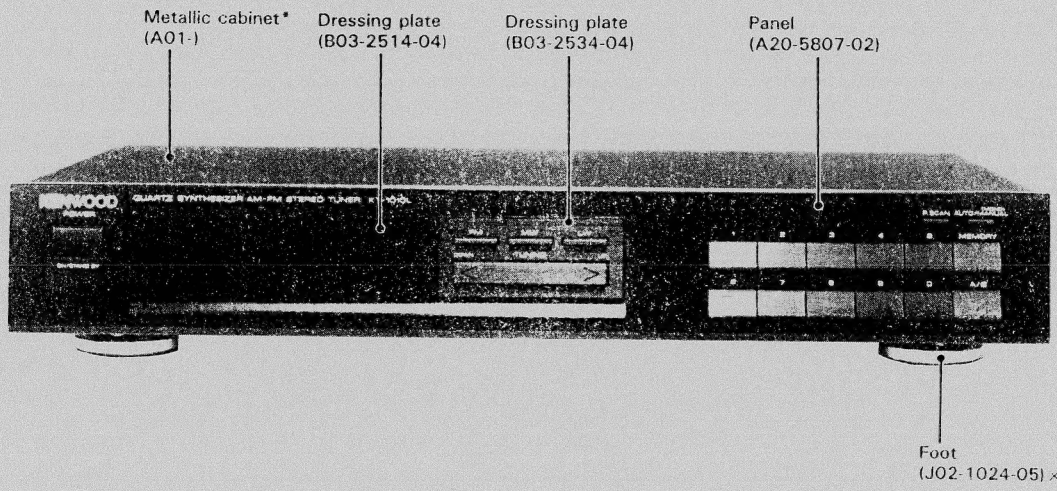
QUARTZ SYNTHESIZER AM-FM STEREO TUNER

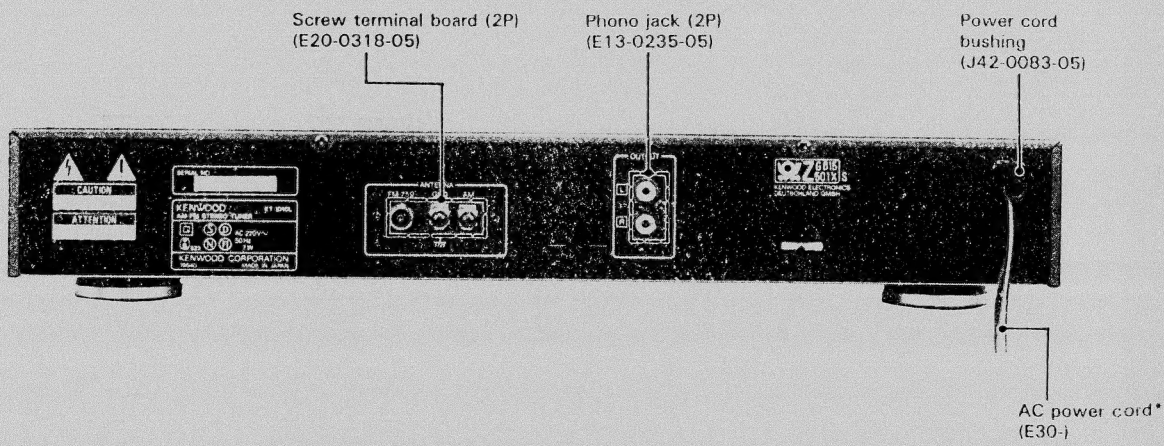
KT-1010/L

SERVICE MANUAL

KENWOOD

B51-3870-00(T)1708





* Refer to parts list on page 28.
Photo is KT-1010L

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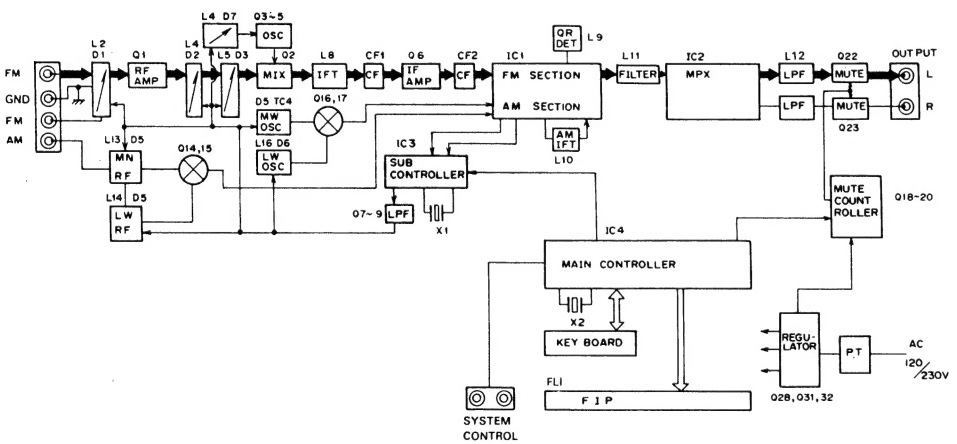
BLOCK DIAGRAM



KT-1010/L

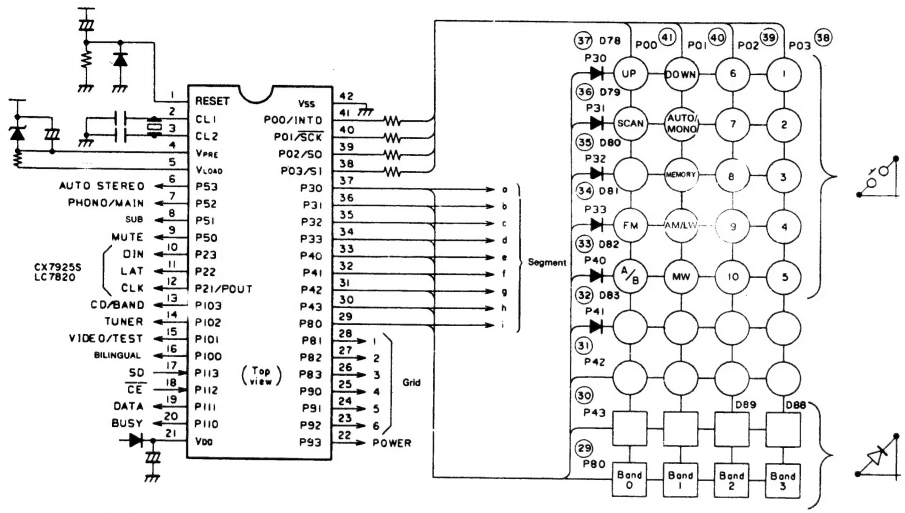
CIRCUIT DESCRIPTION

Function of components
Tuner unit (X05-370X-XX, X05-372X-XX, X05-374X-XX)

Components	Use/Function	Operation/Condition/Interchangeability
IC1 (LA1265)	FM/AM system IC	FM IF amp. detection and control: AM mixing. IF amp and detection.
IC2 (AN7470)	MPX IC	MPX demodulator
IC3 (CX7925B or LM7001)	PLL IC for frequency synthesizer	PLL for electronic tuning.
IC4 (μPD7538AC -045 or μPD7538AC-041)	4-bit microcomputer	Controller for PLL and display, etc.
Q1	RF AMP	High-frequency amp
Q2	MIX	Frequency converter
Q3	OSC	Local oscillator
Q4	OSC Buffer	OSC OUT (oscillator output) for synthesizer
Q5	OSC Buffer	For local oscillator input to MIX
Q6	FM IF AMP	10.7 MHz amp
Q7,8	L.P.F	Low pass filter for PLL
Q9	Low pass filter select	Time constant select in LW mode
Q10	Low pass filter select	Q9 control: LW position with this switch ON
Q11	AM-FM select	TC1 mode select: AM position with this switch ON
Q12	Inverter amp	Auto Stop control
Q13	Buffer	Impedance converter
Q14,15	AM RF select	Electronic RF selection between LW and MW
Q16,17	AM OSC (oscillator) select	Electronic OSC (oscillator) selection between LW and MW
Q18	Mute inverter	Inversion of IC4 control signal
Q19	Mute control	Activated when Function is changed over
Q20	MUTE Driver	Activated when Function is changed over
Q23,24	MUTE Switch	Muting when Function is changed over
Q25	Band select	LW/MW mode control
Q26,27	Band select	AM/FM mode control
Q28	Constant voltage	For stabilizing +12V
Q29	POWER Driver	ON/OFF of +12V power supply
Q30	Power control	Power ON/OFF control
Q31	Constant voltage	For stabilizing +5V
Q32	Constant voltage	For stabilizing +5V, and CE control
Q33	FIP control	Supplies +5V to Q34 and Q35 when power is ON
Q34	FIP Driver	TUNED indication
Q35	FIP Driver	STEREO indication
Q36	FIP control	Controls Q38 when power is ON
Q37	FIP Driver	FIP indication
Q38,39	Band select	LW/MW SW control (CX-7925B models)

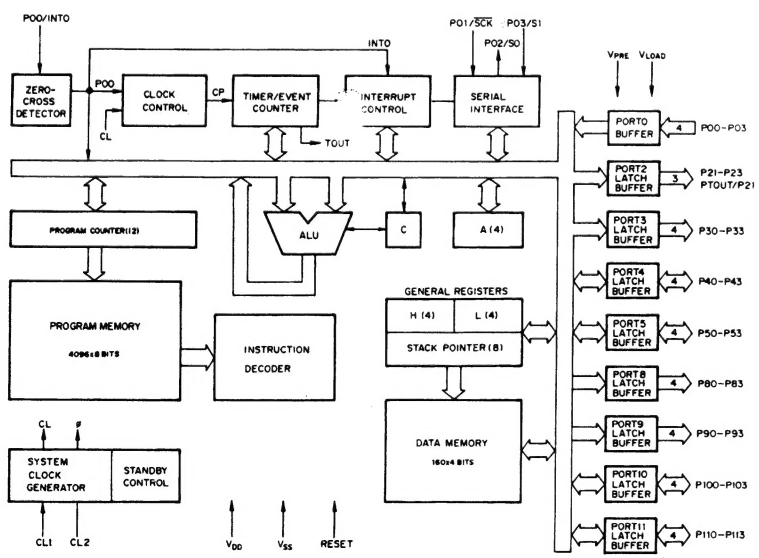
IC4: μPD7538AC-045/-041 (X05-370X-XX/-374X-XX)
Microprocessor IC

Pin connections and key matrix connections



LM7001	μPD7538AC-045
CX7925B	μPD7538AC-041

Block diagram



KT-1010/L

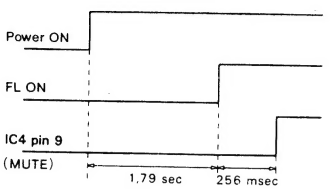
CIRCUIT DESCRIPTION

Pin functions

Pin No.	Symbol	I/O mode	Operation mode	Name	Function
1	RESET	I	H		Reset signal.
2	CL1	—	—		Clock pulse.
3	CL2	—	—		Colck pulse.
4	VPRE	—	—		FL tube predrive power supply.
5	VLOAD	—	—		FL tube drive power supply (−30 V)
6	P53	O	H	AUTO-STEREO	Control by MONO/ST key. Stereo (L), Mono (H)
7	P52	O	H	MAIN	TV MAIN pin.
8	P51	O	H	SUB	TV SUB pin.
9	P50	O	H	MUTE	Muting signal.
10	P23	O	H	DIN	CLK output to PLL IC (LM7001 or CX7925B).
11	P22	O	H	LAT	LAT output to PLL IC (LM7001 or CX7925B).
12	P21/POUT	O	H	CLK	DATA output to PLL IC (LM7001 or CX7925B).
13	P103	O	H		Band information output (UHF-H).
14	P102	O	H		
15	P101	O	H	TEST	Input port: TEST pin (H).
16	P100	O	H		Input port: TV mode "Bilingual" pin (H).
17	P113	I	H	SD	Broadcasting station detection signal when auto-tuning.
18	P112	I	L	$\overline{CE}$	Backup detection pin.
19	P111	I/O	H	DATA	Serial signal DATA pin.
20	P110	I/O	H	BUSY	Serial signal BUSY pin.
21	VDD	—	—	VDD	+5 V power input pin.
22	P93	O	H		Power supply pin.
23	P92	O	H	G6	FL tube digit control pin, GRID6.
24	P91	O	H	G5	FL tube digit control pin, GRID5.
25	P90	O	H	G4	FL tube digit control pin, GRID4.
26	P83	O	H	G3	FL tube digit control pin, GRID3.
27	P82	O	H	G2	FL tube digit control pin, GRID2.
28	P81	O	H	G1	FL tube digit control pin, GRID1.
29	P80	O	H	i	Key strobe signal output, FL tube segment output i.
30	P43	O	H	h	Key strobe signal output, FL tube segment output h.
31	P42	O	H	g	Key strobe signal output, FL tube segment output g.
32	P41	O	H	f	Key strobe signal output, FL tube segment output f.
33	P40	O	H	e	Key strobe signal output, FL tube segment output e.
34	P33	O	H	d	Key strobe signal output, FL tube segment output d.
35	P32	O	H	c	Key strobe signal output, FL tube segment output c.
36	P31	O	H	b	Key strobe signal output, FL tube segment output b.
37	P30	O	H	a	Key strobe signal output, FL tube segment output a.
38	P03/Si	I	H		Key return signal input.
39	P02/Se	I	H		Key return signal input.
40	P01/$\overline{SCK}$	I	H		Key return signal input.
41	P00/INTO	I	H		Key return signal input.
42	VSS	—	—	VSS	GND

CIRCUIT DESCRIPTION

Signal timing after Power ON in Concept mode



Muting control

The output muting signal is controlled as follows
When the pin 9 (MUTE) of the microprocessor is "L", the output muting signal becomes "H" to mute off the output during a following period at each event.

- At power ON/OFF ... Operates for 2 seconds from power ON.
- At band selection
- At preset channel call ... Operates for 0.3 second.
- At tuning dial up/down

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: FM MODE/AUTO					
1	BAND EDGE (1)	–	Connect a DC voltmeter between TP1(VT) and TP2(GND).	87.5MHz	L7	2.5V	(a)
2	BAND EDGE (2)	–	Connect a DC voltmeter between TP1(VT) and TP2(GND).	108.0MHz	TC1	8.0V	(a)
		Repeat alignments 1 and 2 several times.					
3	RF ALIGNMENT	(A) 98.0MHz 1kHz,±75kHz dev	(B)	MONO 98.0MHz	Front end L2,3,4	Maximum amplitude and symmetry of the oscilloscope display.	
4	DISCRIMINATOR	(A) 98.0MHz 1kHz,±75kHz dev 60dBμ(ANT input)	Connect a DC voltmeter between TP3 and TP4.	MONO 98.0MHz	L9	0V	(b)
5	VCO	(A) 98.0MHz 0 dev 60dBμ(ANT input)	Connect a 330kΩ resistor to TP8. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR3	19.00kHz	(c)
6	SEPARATION (STEREO)	(C) 98.0MHz 1kHz,±68.25kHz dev Selector:L or R 60dBμ(ANT input)	(B)	98.0MHz	L8	Minimum crosstalk.	
7	TUNING LEVEL	(A) 98.0MHz 0 dev 18dBμ(ANT input)300Ω 14dBμ(ANT input) 75Ω	(B)	AUTO or MONO 98.0MHz	VR2	Adjust VR2 and stop at the point where FL1(TUNED) goes on.	
AM-MW SECTION			Keep the AM loop antenna installed.		SELECTOR: AM (KT-1010) or MW (KT-1010L)		
(1)	BAND EDGE (1)	–	Connect a DC voltmeter between TP1(VT) and TP2(GND).	530kHz (531kHz)	L16	1.5V	(a)
(2)	BAND EDGE (2)	–	Connect a DC voltmeter between TP1(VT) and TP2(GND).	1610kHz (1602kHz)	TC5	8.0V	(a)
		Repeat alignments (1) and (2) several times.					
(3)	RF ALIGNMENT (1)	(D) 630kHz 400Hz,30% mod	(B)	630kHz	L14	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1440kHz 400Hz,30% mod	(B)	1440kHz	TC3	Maximum amplitude and symmetry of the oscilloscope display.	
(5)	TUNING LEVEL	(D) 1000kHz 36dBμ(ANT input)	(B)	–	VR1	Adjust VR1 and stop at the point where FL1(TUNED) goes on.	
		Repeat alignments (3) and (4) several times.					
AM-LW SECTION (KT-1010L only)			Keep the AM loop antenna installed.		SELECTOR: LW		
(6)	BAND EDGE (1)	–	Connect a DC voltmeter between TP1(VT) and TP2(GND).	153kHz	L15	1.5V	(a)
(7)	BAND EDGE (2)	–	Connect a DC voltmeter between TP1(VT) and TP2(GND).	281kHz	TC4	8.0V	(a)
		Repeat alignments (6) and (7) several times.					
(8)	RF ALIGNMENT (1)	(D) 162kHz 400Hz,30% mod	(B)	162kHz	L13	Maximum amplitude and symmetry of the oscilloscope display.	
(9)	RF ALIGNMENT (2)	(D) 270kHz 400Hz,30% mod	(B)	270kHz	TC2	Maximum amplitude and symmetry of the oscilloscope display.	
		Repeat alignments (8) and (9) several times.					

REGLAGES

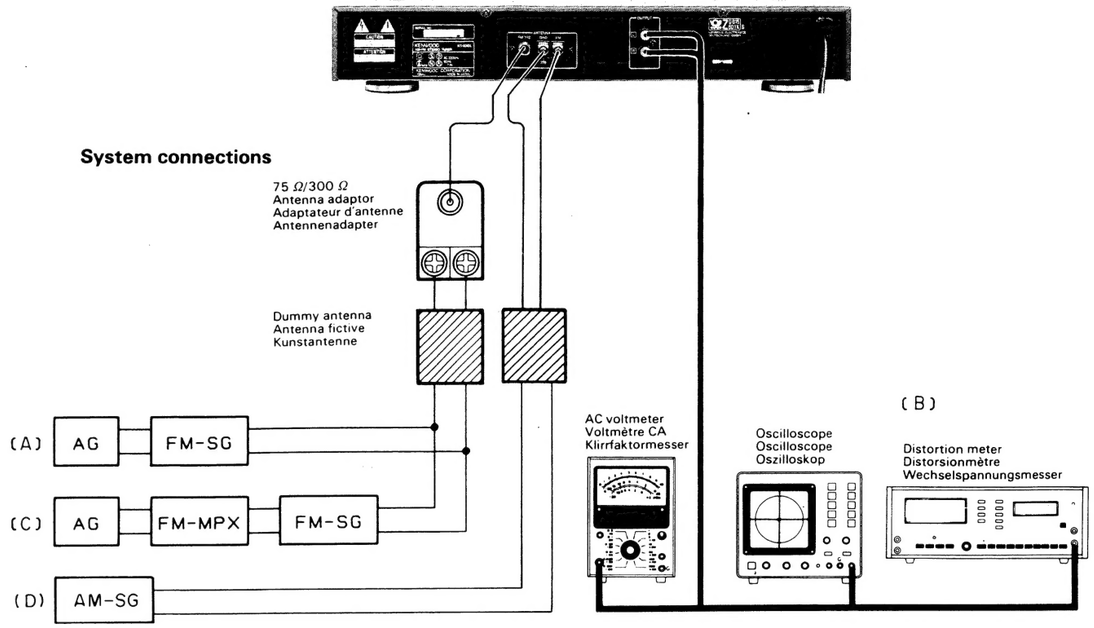
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF		Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEUR: FM MODE: FM MODE/AUTO					
1	BORD DE BANDE (1)	–	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	87,5MHz	L7	2,5V	(a)
2	BORD DE BANDE (2)	–	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	108,0MHz	TC1	8,0V	(a)
		Répéter les points 1 et 2 plusieurs fois.					
3	ALIGNEMENT HT	(A) 98,0MHz 1kHz.±75kHz dév	(B)	MONO 98,0MHz	Contrôle L2,3,4	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
4	DISCRIMINATEUR	(A) 98,0MHz 1kHz.±75kHz dév 60dBμ(Entrée ANT)	Relier un voltmètre CC entre les TP3 et TP4.	MONO 98,0MHz	L9	0V	(b)
5	VCO	(A) 98,0MHz 0 dév 60dBμ(Entrée ANT)	Relier une résistance de 330kΩ à TP8. Raccorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98,0MHz	VR3	19,00kHz	(c)
6	SEPARATION (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz dév Selection:L ou R 60dBμ(Entrée ANT)	(B)	98,0MHz	L8	Diaphonie minimale.	
7	NIVEAU D'ACCORDER	(A) 98,0MHz 0 dév 18dBμ(Entrée ANT) 300Ω 14dBμ(Entrée ANT) 75Ω	–	AUTO ou MONO 98,0MHz	VR2	Ajuster VR2 et arrêter le mouvement de VR2 au moment où le FL1(TUNED)s'allume.	
SECTION MA		Laisser l'antenne bouche MA installée. SELECTEUR: AM (KT-1010) ou MW (KT-1010L)					
(1)	BORD DE BANDE (1)	–	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	530kHz (531kHz)	L16	1,5V	(a)
(2)	BORD DE BANDE (2)	–	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	1610kHz (1602kHz)	TC5	8,0V	(a)
		Répéter les points (1) et (2) plusieurs fois.					
(3)	ALIGNEMENT HT (1)	(D) 630kHz 400Hz.30% mod	(B)	630kHz	L14	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT HT (2)	(D) 1440kHz 400Hz.30% mod	(B)	1440kHz	TC3	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(5)	NIVEAU D'ACCORDER	(A) 1000kHz 36dBμ(Entrée ANT)	–	–	VR1	Ajuster VR1 et arrêter le mouvement de VR1 au moment où le FL1(TUNED)s'allume.	
		Répéter les points (3) et (4) plusieurs fois.					
SECTION GO (KT-1010L seulement)		Laisser l'antenne bouche MA installée. SELECTEUR: LW					
(6)	BORD DE BANDE (1)	–	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	153kHz	L15	1,5V	(a)
(7)	BORD DE BANDE (2)	–	Relier un voltmètre CC entre les TP1(VT) et TP2(GND).	281kHz	TC4	8,0V	(a)
		Répéter les points (6) et (7) plusieurs fois.					
(8)	ALIGNEMENT HT (1)	(D) 162kHz 400Hz.30% mod	(B)	162kHz	L13	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(9)	ALIGNEMENT HT (2)	(D) 270kHz 400Hz.30% mod	(B)	270kHz	TC2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
		Répéter les points (8) et (9) plusieurs fois.					

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SELECTOR: FM MODE:FM MODE/AUTO							
1	BANDKANTE (1)		Einen Gleichspannungs-messer zwischen TP1(VT) und TP2(GND) anschließen.	87,5MHz	L7	2,5V	(a)
2	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP1(VT) und TP2(GND) anschließen.	108,0MHz	TC1	8,0V	(a)
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	EMPFANGS-BEREICH-ABSTIMMUNGEN	(A) 98,0MHz 1kHz.±75kHz Hub	(B)	MONO 98,0MHz	Eingangs-stufe L2,3,4	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
4	DISKRIMINATOR	(A) 98,0MHz 1kHz.±75kHz Hub 60dBμ(ANT Eingang)	Einen Gleichspannungs-messer zwischen TP3 und TP4 anschließen.	MONO 98,0MHz	L9	0V	(b)
5	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dBμ(ANT Eingang)	Einen 330kΩ Wider-standen zu TP8 anschließen. Einen Frequenzzähler über einen Wechselspannungs messer an den Wider-stand anschließen.	98,0MHz	VR3	19,00kHz	(c)
6	STEREO KANAL TRENNUNG	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler: L oder R 60dBμ(ANT-Eingang)	(B)	98,0MHz	L8	Minimal Übersprechen.	
7	ABSTIMM	(A) 98,0MHz 0 Hub 18dBμ(ANT-Eingang) 300Ω 14dBμ(ANT-Eingang) 75Ω	–	AUTO oder MONO 98,0MHz	VR2	Den Pegel wiederstand aufdrehen, und dem VR2 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	
MW-EMPFANGSABTEILUNG Die MW-Rahmenantenne angebracht lassen. SELECTOR: AM (KT-1010) oder MW (KT-1010L)							
(1)	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP1(VT) und TP2(GND) anschließen.	530kHz (531kHz)	L16	1,5V	(a)
(2)	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP1(VT) und TP2(GND) anschließen.	1610kHz (1602kHz)	TC5	8,0V	(a)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 630kHz 400Hz.30% mod	(B)	630kHz	L14	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1440kHz 400Hz.30% mod	(B)	1440kHz	TC3	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(5)	ABSTIMM PEGEL	(A) 1000kHz 36dBμ(ANT-Eingang)	–	–	VR1	Den Pegel wiederstand aufdrehen, und dem VR1 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
LW-EMPFANGSABTEILUNG (nur KT-1010L) Die MW-Rahmenantenne angebracht lassen. SELECTOR: LW							
(6)	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP1(VT) und TP2(GND) anschließen.	153kHz	L15	1,5V	(a)
(7)	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP1(VT) und TP2(GND) anschließen.	281kHz	TC4	8,0V	(a)
Abstimmungen (6) und (7) mehrere Male wiederholen.							
(8)	HF-ABGLEICH (1)	(D) 162kHz 400Hz.30% mod	(B)	162kHz	L13	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(9)	HF-ABGLEICH (2)	(D) 270kHz 400Hz.30% mod	(B)	270kHz	TC2	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (8) und (9) mehrere Male wiederholen.							

KT-1010/L

ADJUSTMENT/REGLAGES/ABGLEICH



VOLTAGE TABLES

TUNER UNIT (X05-370X-XX)

IC1

1	2.2V
2,3	2.3V
4	–
5	10.4V
6	10.5V
7	12V
8	0V
9	3.7V
10	2.8V
11	1.5V
12	1.4V
13,14	1.7V
15	2.2V
16	1.4V
17	10.2V
18,19	0V
20	3.0V
21,22	2.6V

IC2

1	12V
2	2.6V
3	6.1V
4,5	9.6V
6,7	4.9V
8	–
9	0.7V
10	2.6V
11	2.5V
12~14	2.6V
15	3.3V
16	0V

IC3

1	0.94V
2	1.6V
3~5	0V
6,7	–
8	LW:5V MW:0V
9	FM:0V MW:5V
10	0V
11	2.8V
12,13	5.3V
14~16	–

IC4

1~4	–
5	–22V
6~20	–
21	5V
22~42	–

Q1

G1	0V
G2	0V
D	–
S	–

Q2

E	–
C	12V
B	2.1V

Q3

E	4.7V
C	10V
B	5.3V

Q4

E	–
C	5.8V
B	0.6V

Q5

G	2.1V
D	–
S	10V

Q6

E	1.4V
C	10.4V
B	–

Q7

E	0.6V
C	3V
B	1.2V

Q8

E	–
C	3V
B	0.6V

Q9

G	–
D	3V
S	–

Q10,12,14,15,18,19,22~25,30,34~36

E	–
C	–
B	–

Q11

E	–
C	0V
B	–

Q13

E	2.4V
C	12V
B	3V

Q16,17

G	–
D	2.6V
S	–

Q20

E	12V
C	–
B	–

Q26,27

E	12.5V
C	–
B	–

Q28

E	12.5V
C	18V
B	–

Q29

E	18V
C	–
B	–

Q31

E	5.6V
C	–
B	–

Q32,33

E	–
C	5V
B	–

Q37

E	5V
C	–
B	–

TUNER UNIT (X05-374X-XX) (X05-372X-XX)

IC1

1	2.2V
2,3	2.3V
4	–
5	10.4V
6	10.5V
7	12V
8	0V
9	3.7V
10	2.8V
11	1.5V
12	1.4V
13,14	1.7V
15	2.2V
16	1.4V
17	10.2V
18,19	0V
20	3.0V
21,22	2.6V

IC2

1	12V
2	2.6V
3	6.1V
4,5	9.6V
6.7	4.9V
8	–
9	0.7V
10	2.6V
11	2.5V
12~14	2.6V
15	3.3V
16	0V

IC3

1	–
2~4	0V
5	1.9V
6	0.6V
7	1.1V
8~10	–
11	2.8V
12	5.2V
13	0V
14	–

IC4

1~4	–
5	–22V
6~20	–
21	5V
22~42	–

Q1

G1	0V
G2	0V
D	–
S	–

Q2

E	–
C	12V
B	2.1V

Q3

E	4.7V
C	10V
B	5.3V

Q4

E	–
C	5.8V
B	0.6V

Q5

G	2.1V
D	–
S	10V

Q6

E	1.4V
C	10.4V
B	2.1V

Q7

E	0.6V
C	3V
B	1.2V

Q8

E	–
C	3V
B	0.6V

Q9

E	–
C	3V
B	–

Q10,12,15,18,19,22~24,30,34~36

E	–
C	–
B	–

Q11

E	–
C	0V
B	–

Q13

E	2.4V
C	12V
B	3V

Q14

E	0V
C	–
B	–

Q16,17

G	–
D	2.6V
S	–

Q20,25,27

E	12.5V
C	–
B	–

Q26

E	12.5V
C	LW:10V MW: 10V
B	–

Q28

E	12.5V
C	18V
B	–

Q29

E	18V
C	–
B	–

Q31

E	5.6V
C	–
B	–

Q32,33

E	–
C	5V
B	–

Q37

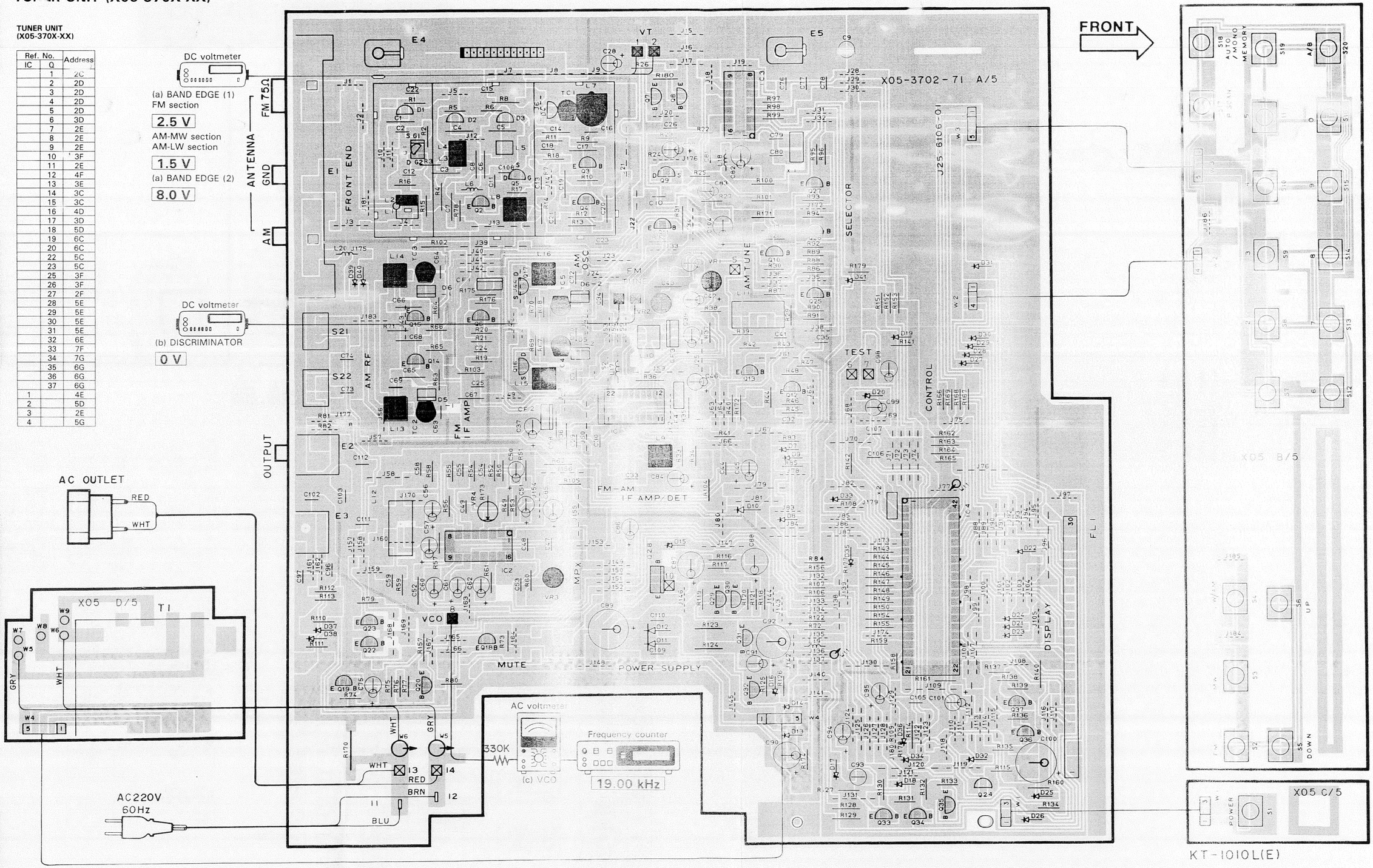
E	5V
C	–
B	–

PC BOARD (Component side view)

TUNER UNIT (X05-370X-XX)

TUNER UNIT (X05-370X-XX)

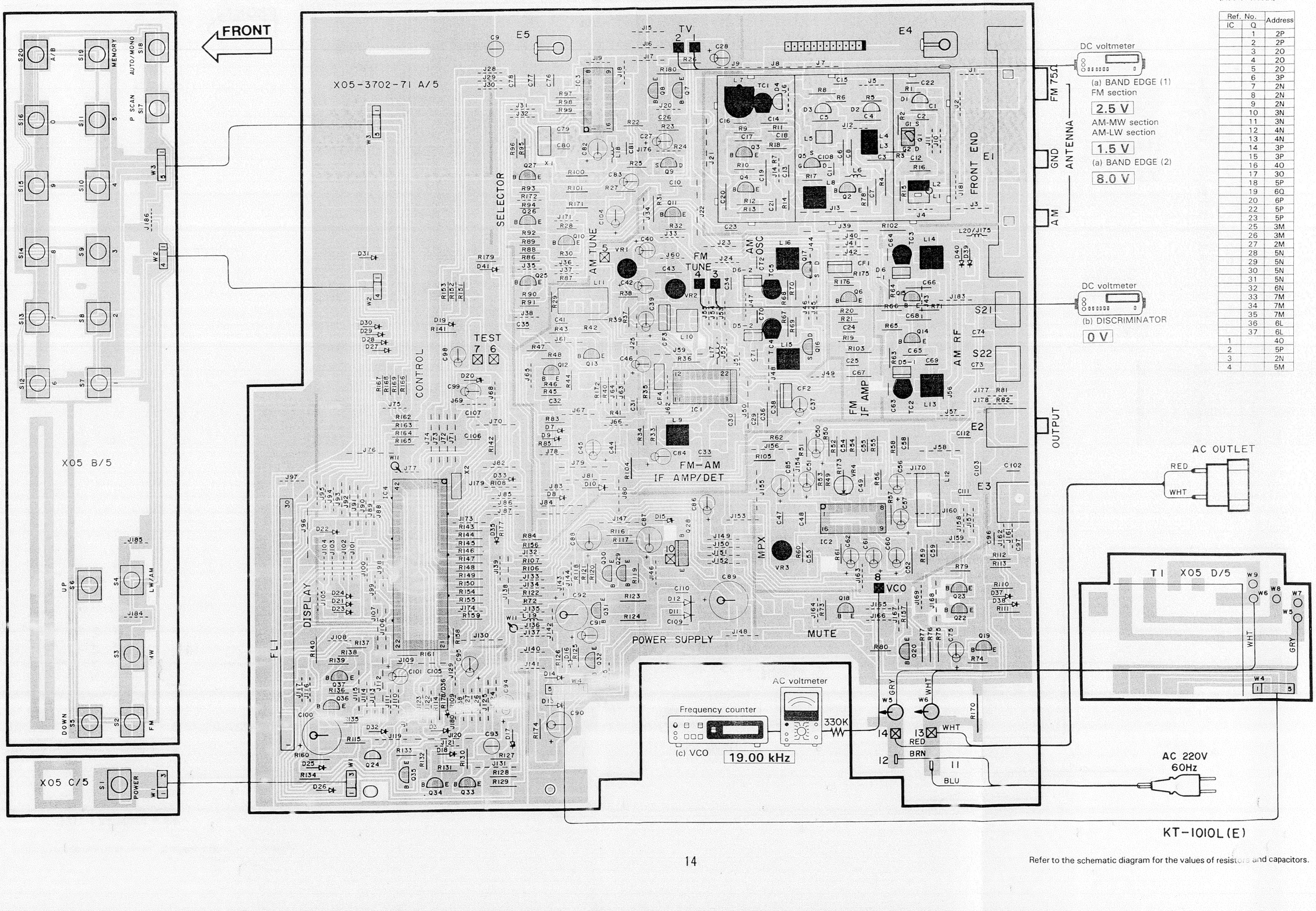
Ref. No. IC	Ref. No. Q	Address
	1	2C
	2	2D
	3	2D
	4	2D
	5	2D
	6	3D
	7	2E
	8	2E
	9	2E
	10	3F
	11	2E
	12	4F
	13	3E
	14	3C
	15	3C
	16	4D
	17	3D
	18	5D
	19	6C
	20	6C
	22	5C
	23	5C
	25	3F
	26	3F
	27	2F
	28	5E
	29	5E
	30	5E
	31	5E
	32	6E
	33	7F
	34	7G
	35	6G
	36	6G
	37	6G
1		4E
2		5D
3		2E
4		5G



Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)

TUNER UNIT (X05-370X-XX)



TUNER UNIT
(X05-370X-XX)

Ref. No. IC	Ref. No. Q	Address
	1	2P
	2	2P
	3	2O
	4	2O
	5	2O
	6	3P
	7	2N
	8	2N
	9	2N
	10	3N
	11	3N
	12	4N
	13	4N
	14	3P
	15	3P
	16	4O
	17	3O
	18	5P
	19	6Q
	20	6P
	22	5P
	23	5P
	25	3M
	26	3M
	27	2M
	28	5N
	29	5N
	30	5N
	31	5N
	32	6N
	33	7M
	34	7M
	35	7M
	36	6L
	37	6L
1		4O
2		5P
3		2N
4		5M

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view)

TUNER UNIT (X05-374X-XX) JAPAN MADE
(X05-372X-XX) SINGAPORE MADE

TUNER UNIT
(X05-374X-XX)
(X05-372X-XX)

Ref. No. IC	Ref. No. Q	Address
	1	2V
	2	2W
	3	2W
	4	2W
	5	2W
	6	3W
	7	2X
	8	2X
	9	2X
	10	3Y
	11	3X
	12	4Y
	13	4Y
	14	3V
	15	3V
	16	3W
	17	3W
	18	5W
	19	6V
	20	6V
	22	5V
	23	5V
	25	3Y
	26	3Y
	27	2Y
	28	5X
	29	5X
	30	5X
	31	5X
	32	6Y
	33	7Y
	34	7Z
	35	7Z
	36	6Z
	37	6Z
	38	3Y
	39	2Y
1		4X
2		5W
3		2X
4		5Z

DC voltmeter

(a) BAND EDGE (1)
FM section
2.5 V
AM-MW section
AM-LW section
1.5 V
(a) BAND EDGE (2)
8.0 V

DC voltmeter

(b) DISCRIMINATOR
0 V

AC OUTLET

AC220V
50Hz

AC voltmeter

330K

Frequency counter

(c) VCO
19.00 kHz

X05-3742-71 A/5
3722-71 SINGAPORE MADE

FRONT

X05 D/5 T1

X05 B/5

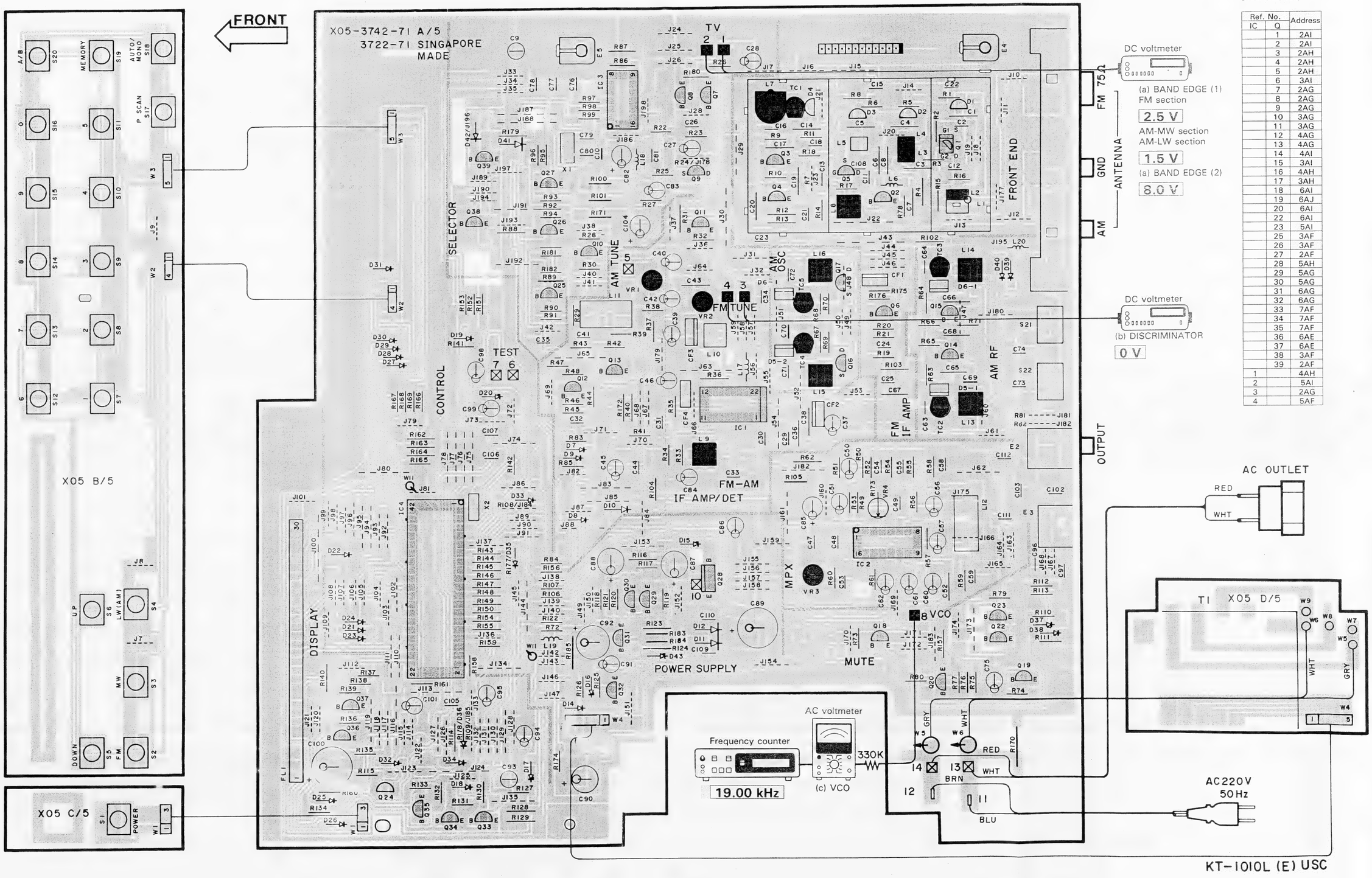
X05 C/5

KT-1010L(E) USC

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)

TUNER UNIT (X05-374X-XX) JAPAN MADE
(X05-372X-XX) SINGAPORE MADE



TUNER UNIT
(X05-374X-XX)
(X05-372X-XX)

Ref. No. IC	Ref. No. Q	Address
	1	2AI
	2	2AI
	3	2AH
	4	2AH
	5	2AH
	6	3AI
	7	2AG
	8	2AG
	9	2AG
	10	3AG
	11	3AG
	12	4AG
	13	4AG
	14	4AI
	15	3AI
	16	4AH
	17	3AH
	18	6AI
	19	6AJ
	20	6AI
	22	6AI
	23	5AI
	25	3AF
	26	3AF
	27	2AF
	28	5AH
	29	5AG
	30	5AG
	31	6AG
	32	6AG
	33	7AF
	34	7AF
	35	7AF
	36	6AE
	37	6AE
	38	3AF
	39	2AF
1		4AH
2		5AI
3		2AG
4		5AF

Refer to the schematic diagram for the values of resistors and capacitors.

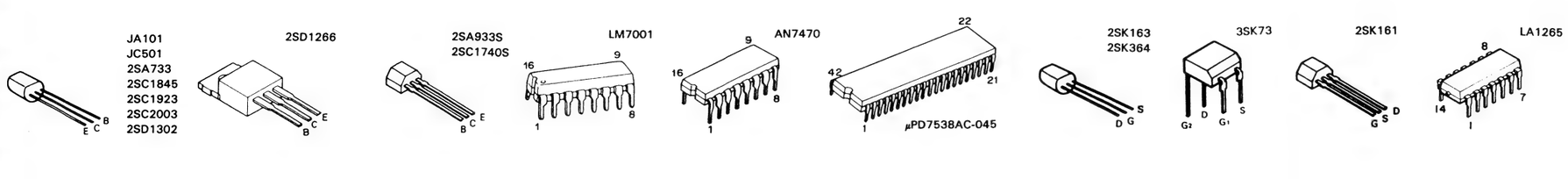
(X05-370X-XX)(A/5)

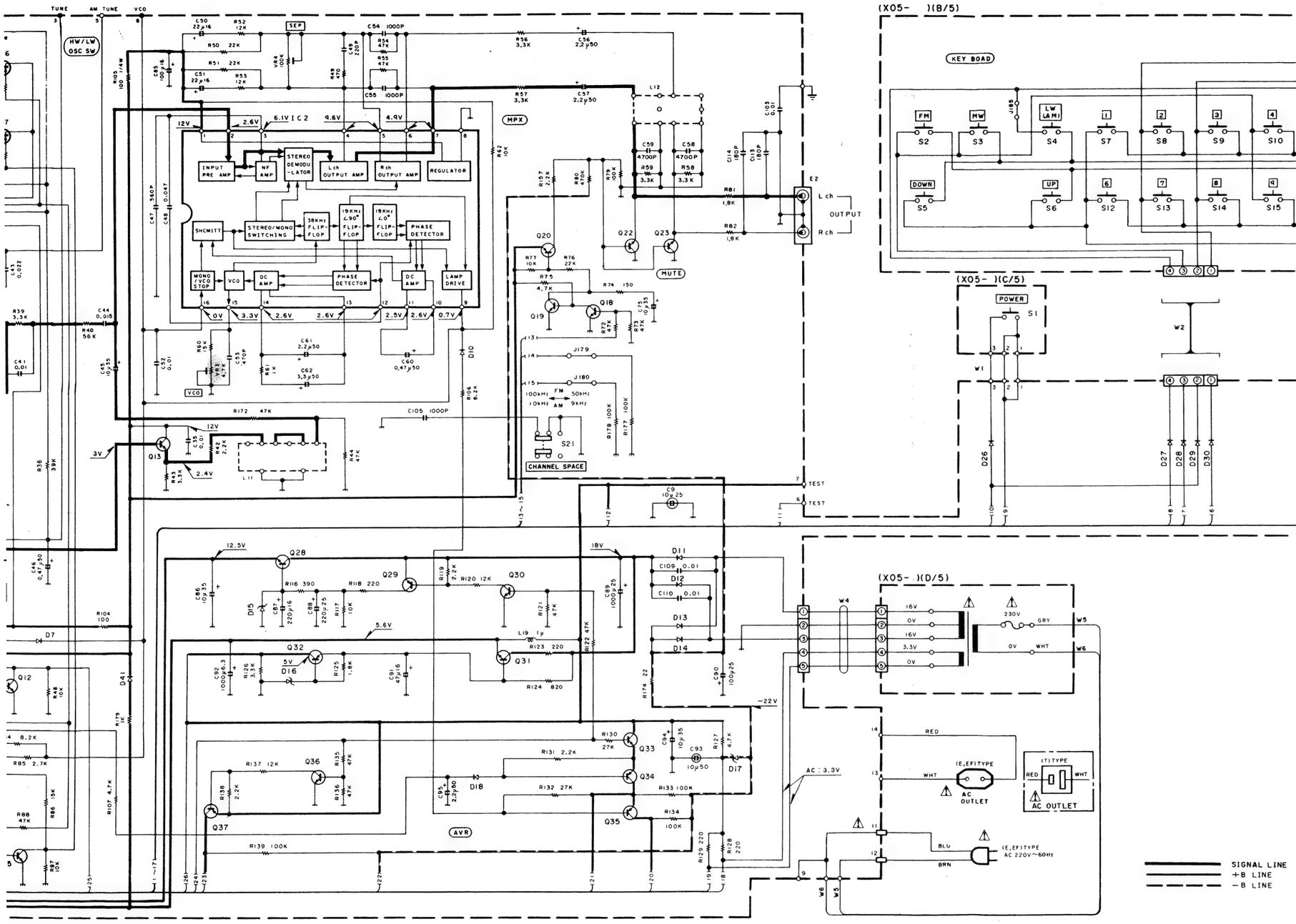
IC1	LA1265
IC2	AN7470
IC3	LM7001
IC4	μPD7538AC-045

Q1	3SK73(GR)
Q2	2SC1923(O)
Q3,4	2SC1923
Q5	2SK161(Y,GR)
Q6	2SC1923(R,O)
Q7	2SC1845(F,E)
Q9,16,17	2SK364(GR,BL) or 2SK163(L,M)
Q8,10~15,18,19,25,30,33,36	2SC945(A)(Q,P), 2SC1740S(Q,R) or JC501(P,Q)
Q20,26,27,29,32,34,35,37	2SA733(A)(Q,P), 2SA933S(Q,R) or JA101(P,Q)
Q22,23	2SD1302(S,T)
Q28	2SD1266(Q,P)
Q31	2SC2003(L,K)

D1~4	KV1310-4
D5,6	KV1236(Z2)
D7~10,18,19,21~31,39~41	1SS133, HSS104 or 1N4148
D11,12	S5568 or 1N4004
D13,14	1SS131 or HSS104A
D15	RD13ES(B2), HZS13N(B2) or BZX55-C13
D16	RD5.6ES(B2), HZS5.6N(B2) or BZX55-C5V6
D17	RD5.1ES(B), HZS5.1N(B) or BZX55-C5V1
D20	RD10ES(B), HZS10N(B) or BZX55-C10

FL1 : FIP88RM7 or CPF2232GR





KT-1010L(E)
(SANYO)

DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

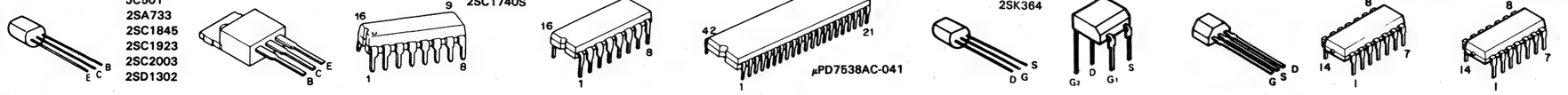
Y07-3170-10

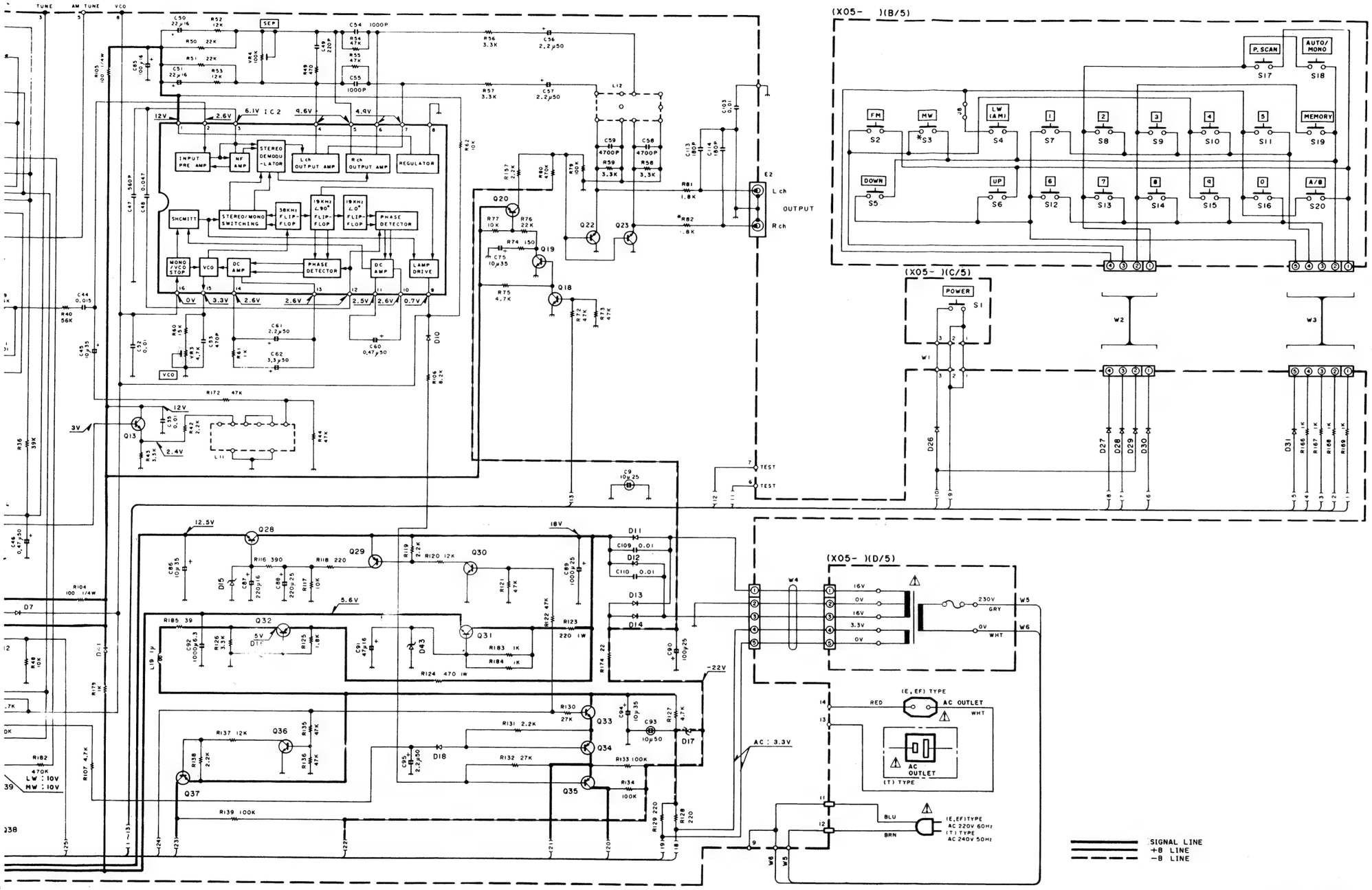
KT-1010/L
KENWOOD

(X05-374X-XX)(A/5) JAPAN MADE
(X05-372X-XX)(A/5) SINGAPORE MADE

	JAPAN MADE		SINGAPORE MADE	
	T, E	EF	T, E	EF
X05-372X-XX	NO	NO	2-71	NO
X05-374X-XX	2-71	2-73	NO	NO

IC1	LA1265
IC2	AN7470
IC3	CX7925B
IC4	μPD7538AC-041
Q1	3SK73(GR)
Q2	2SC1923(O)
Q3,4	2SC1923
Q5	2SK161(Y, GR)
Q6	2SC1923(R,O)
Q7,8	2SC1845(F,E)
Q9,16,17	2SK163(L,M)
Q10~15,18,19,30,33,36,38,39	2SC945(A)(Q,P), 2SC1740S(Q,R)
Q20,25~27,29,32,34,35,37	2SA733(A)(Q,P), 2SA933S(Q,R)
Q22,23	2SD1302(S,T)
Q28	2SD1266(Q,P)
Q31	2SC2003(L,K)
D1~4	KV1310-4
D5,6	KV1236(Z2)
D7~10,18,19,21~31,39~42	1SS133 or HSS104
D11,12	S556B or IN4004
D13,14	1SS131 or HSS104A
D15	RD13ES(B2), HZS13N(B2) or BZX55-C13
D16	RD5.6ES(B2), HZS5.6N(B2) or BZX55-C5V6
D17	RD5.1ES(B), HZS5.1N(B) or BZX55-C5V1
D20	RD10ES(B), HZS10N(B) or BZX55-C10
D43	RD6.2ES(B2), HZS6.2N(B2) or BZX-55-C6V2
FL1	FIP88RM7 or CPF2232GR





DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Die bei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen.

KT-1010L(E) USC

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

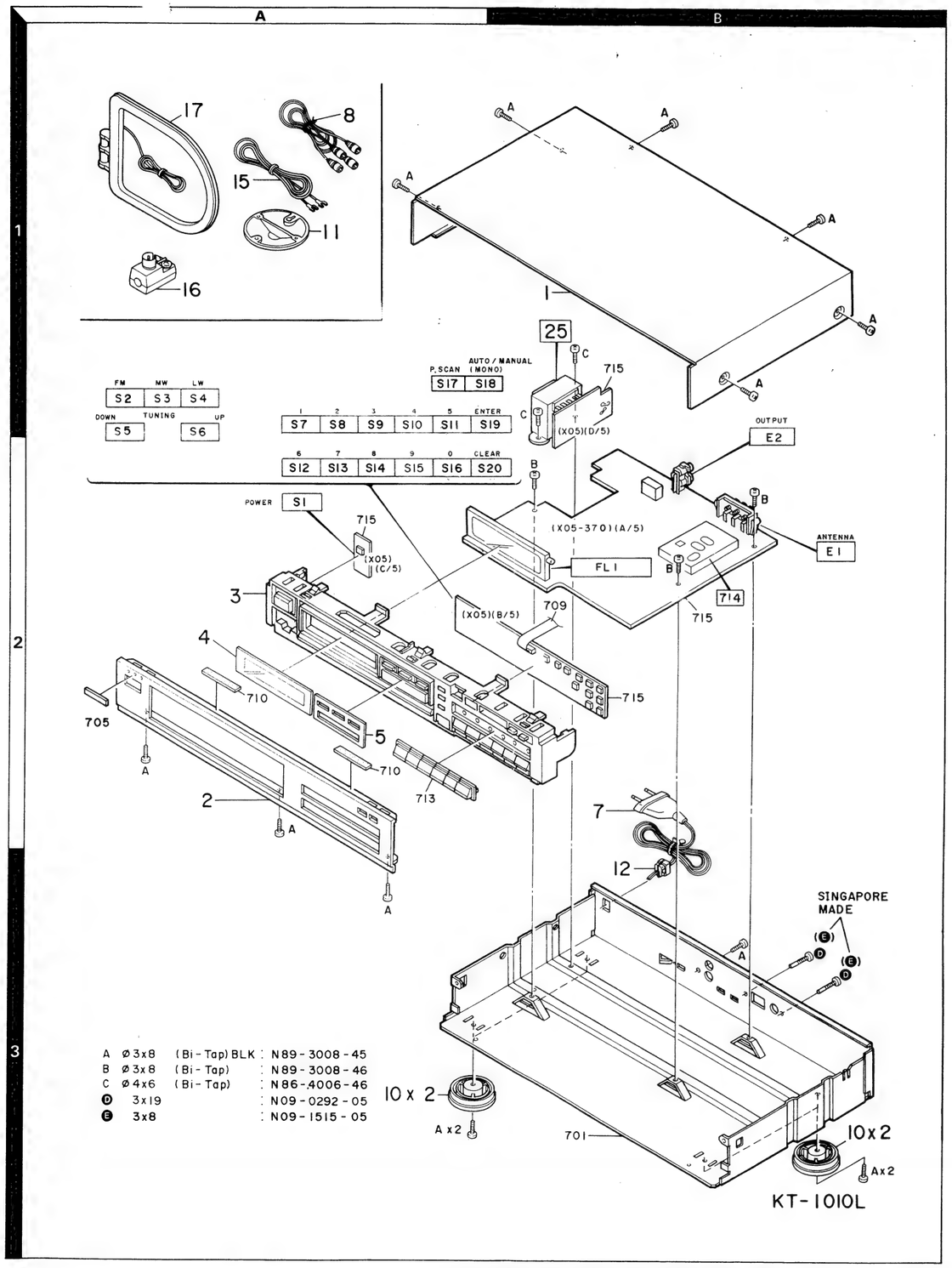
Y07-3190-10

KT-1010/L

KENWOOD

KT-1010/L

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

	Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
				KT-1010			
	1	1B		A01-1770-01	METALLIC CABINET	TE	
	1	1B	*	A01-1771-01	METALLIC CABINET	EF	
	2	2A		A20-5807-02	PANEL		
	3	2A		A22-1069-01	SUB PANEL		
	4	2A		B03-2514-04	DRESSING PLATE		
	5	2A		B03-2534-04	DRESSING PLATE		
	-			B46-0122-13	WARRANTY CARD	E	
	-			B46-0139-03	WARRANTY CARD	EF	
	-			B46-0143-03	WARRANTY CARD	T	
	-			B50-9413-00	INSTRUCTION MANUAL(ENGLISH)	TE	
	-		*	B50-9415-00	INSTRUCTION MANUAL(FRENCH)	E	
	-		*	B50-9588-00	INSTRUCTION MANUAL(ENGLISH)	EF	
	-		*	B50-9590-00	INSTRUCTION MANUAL(FRENCH)	EF	
	-		*	B50-9591-00	INSTRUCTION MANUAL(G,D,I)	EF	
	-		*	B50-9706-00	INSTRUCTION MANUAL(G,D,I)	E	
	-			B58-0803-13	CAUTION CARD	EEF	
⚠	7	2B		E30-0459-05	AC POWER CORD	EEF	
⚠	7	2B		E30-1416-05	AC POWER CORD	T	
	8	1A		E30-0505-05	AUDIO CORD		
	-			H01-8494-04	ITEM CARTON CASE	TE	
	-		*	H01-8495-04	ITEM CARTON CASE	EF	
	-			H10-3780-02	POLYSTYRENE FOAMED FIXTURE	TE	
	-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
	-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
	10	3A,3B		J02-1024-05	FOOT		
	11	1A		J19-2815-04	ANTENNA HOLDER		
⚠	12	3B		J42-0083-05	POWER CORD BUSHING		
	-			J61-0307-05	WIRE BAND		
	A	1B,3B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
	B	2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
	C	1B	*	N86-4006-46	BINDING HEAD TAPTITE SCREW		
	D	3B		N09-0292-05	STEPPED SCREW (3X19)		
	15	1A		T90-0132-05	T TYPE ANTENNA		
	16	1A		T90-0136-05	ANTENNA ADAPTOR		
	17	1A		T90-0153-05	LOOP ANTENNA	EF	
	17	1A		T90-0173-05	LOOP ANTENNA	TE	
				KT-1010L			
	1	1B		A01-1622-01	METALLIC CABINET		S
	1	1B		A01-1770-01	METALLIC CABINET	TE	J
	1	1B	*	A01-1771-01	METALLIC CABINET	EF	
	2	2A		A20-5807-02	PANEL		
	3	2A		A22-1069-01	SUB PANEL		
	4	2A		B03-2514-04	DRESSING PLATE		J
	4	2A		B03-2534-04	DRESSING PLATE		J
	5	2A		B03-2540-04	DRESSING PLATE		S
	5	2A		B03-2544-04	DRESSING PLATE		S
	-			B46-0122-13	WARRANTY CARD	E	J
	-			B46-0139-03	WARRANTY CARD	EF	
	-			B46-0143-03	WARRANTY CARD		S
	-			B46-0143-03	WARRANTY CARD	T	J
	-			B50-9413-00	INSTRUCTION MANUAL(ENGLISH)	TE	J
	-		*	B50-9415-00	INSTRUCTION MANUAL(FRENCH)	E	J

E: Scandinavia & Europe K: USA P: Canada W: Europe
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia EF: FRANCE MADE

J: JAPAN MADE
S: SINGAPORE MADE

⚠ indicates safety critical components.

KT-1010/L

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

	Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
	-		*	B50-9588-00	INSTRUCTION MANUAL(ENGLISH)	EF	
	-		*	B50-9590-00	INSTRUCTION MANUAL(FRENCH)	EF	
	-		*	B50-9591-00	INSTRUCTION MANUAL(G,D,I)	EF	
	-		*	B50-9601-00	INSTRUCTION MANUAL		S
	-		*	B50-9706-00	INSTRUCTION MANUAL(G,D,I)	E	J
	-			B58-0803-13	CAUTION CARD	EEF	J
	7	2B		E30-0459-05	AC POWER CORD	EEF	J
	7	2B		E30-1416-05	AC POWER CORD		S
	7	2B		E30-1416-05	AC POWER CORD	T	J
	8	1A		E30-0505-05	AUDIO CORD		
	-			H01-8494-04	ITEM CARTON CASE	TE	J
	-		*	H01-8495-04	ITEM CARTON CASE	EF	
	-		*	H01-8502-04	ITEM CARTON CASE		S
	-			H10-3780-02	POLYSTYRENE FOAMED FIXTURE	TE	J
	-			H10-3819-02	POLYSTYRENE FOAMED FIXTURE		S
	-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
	-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
	10	3A,3B		J02-1024-05	FOOT		
	11	1A		J19-2815-04	ANTENNA HOLDER		
⚠	12	3B		J42-0083-05	POWER CORD BUSHING		
	-			J61-0307-05	WIRE BAND		
	A	1B,3B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
	B	2B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
	C	1B	*	N86-4006-46	BINDING HEAD TAPTITE SCREW		
	D	3B		N09-0292-05	STEPPED SCREW (3X19)		
	E	3B		N09-1515-05	TAPPING SCREW (3X8)		S
	15	1A		T90-0132-05	T TYPE ANTENNA		
	16	1A		T90-0136-05	ANTENNA ADAPTOR		
	17	1A		T90-0153-05	LOOP ANTENNA	EF	
	17	1A		T90-0173-05	LOOP ANTENNA	TE	J
	17	1A		T90-0174-05	LOOP ANTENNA		S
				TUNER UNIT (X05-370X-XX: 2-71: T, E, 2-73: EF)			
	C1			C91-0713-05	CERAMIC 2.2PF K		
	C2			CC45FSL1H220J	CERAMIC 22PF J		
	C3			C91-0757-05	CERAMIC 1000PF K		
	C4			C91-0720-05	CERAMIC 8.2PF K		
	C5			C91-0718-05	CERAMIC 5.6PF K		
	C6			C91-0716-05	CERAMIC 3.9PF K		
	C7			C91-0720-05	CERAMIC 8.2PF K		
	C8			C91-0749-05	CERAMIC 220PF K		
	C9			C90-1332-05	NP-ELEC 10UF 25WV		
	C11			CC45FSL1H020C	CERAMIC 2.0PF C		
	C12			CK45FB1H102K	CERAMIC 1000PF K		
	C14			C91-0713-05	CERAMIC 2.2PF K		
	C15			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C16			CC45FUJ1H080D	CERAMIC 8.0PF D		
	C17			C91-0733-05	CERAMIC 33PF J		
	C18			CC45FSL1H150J	CERAMIC 15PF J		
	C19			C91-0713-05	CERAMIC 2.2PF K		
	C20			C91-0737-05	CERAMIC 47PF J		
	C21			CC45FSL1H101J	CERAMIC 100PF J		
	C22			CK45FB1H102K	CERAMIC 1000PF K		
	C24 ,25			CK45FF1H103Z	CERAMIC 0.010UF Z		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向	Remarks 備考
C26			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C27 ,28			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C29 ,30			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C31			CC45FSL1H101J	CERAMIC	100PF	J		
C32 -35			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C36			C91-0085-05	CERAMIC	0.022UF	N		
C37			CE04KW1C220M	ELECTRO	22UF	16WV		
C38			C91-0769-05	CERAMIC	0.01UF	M		
C39		*	CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C40			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C41			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C42			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C43			C91-0085-05	CERAMIC	0.022UF	N		
C44			CF92FV1H153J	MF	0.015UF	J		
C45			CE04KW1V100M	ELECTRO	10UF	35WV		
C46			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C47			CK45FB1H561K	CERAMIC	560PF	K		
C48			CF92FV1H473J	MF	0.047UF	J		
C49			CC45FSL1H221J	CERAMIC	220PF	J		
C50 ,51			CE04KW1C220M	ELECTRO	22UF	16WV		
C52			C91-0769-05	CERAMIC	0.01UF	M		
C53			CC93FCH1H471J	CERAMIC	470PF	J		
C54 ,55			CK45FB1H102K	CERAMIC	1000PF	K		
C56 ,57		*	CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C58 ,59			CF92FV1H472J	MF	4700PF	J		
C60			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C61		*	CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C62			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C63 ,64			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C65 -67			C91-0085-05	CERAMIC	0.022UF	N		
C68			C91-0769-05	CERAMIC	0.01UF	M		
C69			CC45FTH1H101J	CERAMIC	100PF	J		
C70			CC45FCH1H151J	CERAMIC	150PF	J		
C71			CC93FCH1H221J	CERAMIC	220PF	J		
C72			CC93FCH1H391J	CERAMIC	390PF	J		
C75			CE04KW1V100M	ELECTRO	10UF	35WV		
C76 -78			CK45FB1H102K	CERAMIC	1000PF	K		
C79 ,80			CC45FCH1H220J	CERAMIC	22PF	J		
C81			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C82			CE04KW1A101M	ELECTRO	100UF	10WV		
C83 ,84			CE04KW1V100M	ELECTRO	10UF	35WV		
C85		*	CE04KW1C101M	ELECTRO	100UF	16WV		
C86			CE04KW1V100M	ELECTRO	10UF	35WV		
C87		*	CE04KW1C221M	ELECTRO	220UF	16WV		
C88			CE04KW1E221M	ELECTRO	220UF	25WV		
C89			CE04KW1E102M	ELECTRO	1000UF	25WV		
C90			CE04KW1E101M	ELECTRO	100UF	25WV		
C91			CE04KW1C470M	ELECTRO	47UF	16WV		
C92			CE04KWOJ102M	ELECTRO	1000UF	6.3WV		
C93			C90-1400-05	NP-ELEC	10UF	50WV		
C94			CE04KW1V100M	ELECTRO	10UF	35WV		
C95		*	CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C98			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C99			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C100		*	CE04KWOJ222M	ELECTRO	2200UF	6.3WV		

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C101			CE04KW1V100M	ELECTRO	10UF	35WV		
C103			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C104		*	CE04KW1C101M	ELECTRO	100UF	16WV		
C106,107			CC45FSL1H331J	CERAMIC	330PF	J		
C109,110			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C113,114			CC45FSL1H181J	CERAMIC	180PF	J		
TC1			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF				
TC2			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF				
TC3			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF				
TC4			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF				
TC5			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF				
E1	2B		E20-0318-05	SCREW TERMINAL BOARD(2P)				
E2	1B		E13-0235-05	PHONO JACK (2P)				
⚠ 25	1B		L01-5832-05	POWER TRANSFORMER				
⚠ 25	1B		L01-8642-05	POWER TRANSFORMER				
CF1 ,2			L72-0536-05	CERAMIC FILTER				
CF3			L72-0099-05	CERAMIC FILTER				
CF4			L72-0096-05	CERAMIC FILTER				
L1			L31-0581-05	FM-RF COIL				
L2			L31-0520-05	FM-RF COIL				
L3			L31-0580-05	FM-RF COIL				
L4 ,5			L31-0579-05	FM-RF COIL				
L6			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)				
L7			L32-0318-05	FM OSCILLATING COIL				
L8			L30-0427-15	FM IFT				
L9			L30-0439-15	FM IFT				
L10			L30-0362-05	AM IFT				
L11			L79-0125-05	LC FILTER				
L12			L79-0750-05	LC FILTER				
L13			L31-0499-05	LW-RF COIL				
L14			L31-0509-05	MW-RF COIL				
L15			L32-0288-05	LW OSCILLATING COIL				
L16			L32-0277-15	MW OSCILLATING COIL				
L17			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)				
L18 -20			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)				
X1			L77-1122-05	CRYSTAL RESONATOR				
X2			L78-0202-05	RESONATOR (400KHZ)				
R100			RD14GB2E220J	FL-PROOF RD	22	J 1/4W		
R101			RD14GB2E101J	FL-PROOF RD	100	J 1/4W		
R104,105			RD14GB2E101J	FL-PROOF RD	100	J 1/4W		
R123			RS14KB3A221J	FL-PROOF RS	220	J 1W		
R124			RS14KB3A821J	FL-PROOF RS	820	J 1W		
R171			RD14GB2E101J	FL-PROOF RD	100	J 1/4W		
VR1			R12-3126-05	TRIMMING POT.(10K)				
VR2			R12-3130-05	TRIMMING POT.(33K)				
VR3			R12-1089-05	TRIMMING POT.(4.7K)				
VR4			R12-5058-05	TRIMMING POT.(100K)				
S1 -20	1A,2A		S40-1064-05	PUSH SWITCH				
D1 -4			CPF2232GR	FLUORESCENT INDICATOR TUBE				
D5 ,6			KV1310-4	VARIABLE CAPACITANCE DIODE				
D7 -10			KV1236(Z2)	VARIABLE CAPACITANCE DIODE				
D7 -10			HSS104	DIODE			TE	
			1N4148	DIODE			EF	

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D7 -10			1SS133	DIODE	TE	
D11 ,12			S5566B	DIODE	TE	
D11 ,12			1N4004	DIODE	EF	
D13 ,14			HSS104A	DIODE		
D13 ,14			1SS131	DIODE		
D15			BZX55-C13	DIODE	EF	
D15			HZS13N(B2)	ZENER DIODE	TE	
D15			RD13ES(B2)	ZENER DIODE	TE	
D16			BZX55-C5V6	DIODE	EF	
D16			HZS5.6N(B2)	ZENER DIODE	TE	
D16			RD5.6ES(B2)	ZENER DIODE	TE	
D17			BZX55-C5V1	DIODE	EF	
D17			HZS5.1N(B)	ZENER DIODE	TE	
D17			RD5.1ES(B)	ZENER DIODE	TE	
D18 ,19			HSS104	DIODE	TE	
D18 ,19			1N4148	DIODE	EF	
D18 ,19			1SS133	DIODE	TE	
D20			BZX55-C10	DIODE	EF	
D20			HZS10N(B)	ZENER DIODE	TE	
D20			RD10ES(B)	ZENER DIODE	TE	
D21 -31			HSS104	DIODE	TE	
D21 -31			1N4148	DIODE	EF	
D21 -31			1SS133	DIODE	TE	
D39 -41			HSS104	DIODE	TE	
D39 -41			1N4148	DIODE	EF	
D39 -41			1SS133	DIODE	TE	
FL1	2B		FIP8BRM7	FLUORESCENT INDICATOR TUBE		
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC4			UPD7538AC-045	IC(MICROPROCESSOR)		
Q1			3SK73(GR)	FET		
Q2			2SC1923(Q)	TRANSISTOR		
Q3 ,4			2SC1923	TRANSISTOR		
Q5			2SK161(Y,GR)	FET		
Q6			2SC1923(R,Q)	TRANSISTOR		
Q7			2SC1845(F,E)	TRANSISTOR		
Q8			JC501(P,Q)	TRANSISTOR	EF	
Q8			2SC1740S(Q,R)	TRANSISTOR	TE	
Q8			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q9			2SK163(L,M)	FET	TE	
Q9			2SK364(GR,BL)	FET		
Q10 -15			JC501(P,Q)	TRANSISTOR	EF	
Q10 -15			2SC1740S(Q,R)	TRANSISTOR	TE	
Q10 -15			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q16 ,17			2SK163(L,M)	FET	TE	
Q16 ,17			2SK364(GR,BL)	FET		
Q18 ,19			JC501(P,Q)	TRANSISTOR	EF	
Q18 ,19			2SC1740S(Q,R)	TRANSISTOR	TE	
Q18 ,19			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q20			JA101(P,Q)	TRANSISTOR	EF	
Q20			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q20			2SA933S(Q,R)	TRANSISTOR	TE	
Q22 ,23			2SD1302(S,T)	TRANSISTOR		
Q25			JC501(P,Q)	TRANSISTOR	EF	

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Q25			2SC1740S(Q,R)	TRANSISTOR	TE	
Q25			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q26 ,27			JA101(P,Q)	TRANSISTOR	EF	
Q26 ,27			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q26 ,27			2SA933S(Q,R)	TRANSISTOR	TE	
Q28			2SD1266(Q,P)	TRANSISTOR		
Q29			JA101(P,Q)	TRANSISTOR	EF	
Q29			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q29			2SA933S(Q,R)	TRANSISTOR	TE	
Q30			JC501(P,Q)	TRANSISTOR	EF	
Q30			2SC1740S(Q,R)	TRANSISTOR	TE	
Q30			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q31			2SC2003(L,K)	TRANSISTOR		
Q32			JA101(P,Q)	TRANSISTOR	EF	
Q32			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q32			2SA933S(Q,R)	TRANSISTOR	TE	
Q33			JC501(P,Q)	TRANSISTOR	EF	
Q33			2SC1740S(Q,R)	TRANSISTOR	TE	
Q33			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q34 ,35			JA101(P,Q)	TRANSISTOR	EF	
Q34 ,35			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q34 ,35			2SA933S(Q,R)	TRANSISTOR	TE	
Q36			JC501(P,Q)	TRANSISTOR	EF	
Q36			2SC1740S(Q,R)	TRANSISTOR	TE	
Q36			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q37			JA101(P,Q)	TRANSISTOR	EF	
Q37			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q37			2SA933S(Q,R)	TRANSISTOR	TE	
TUNER UNIT (X05-374X-XX: 2-71: T, E, 2-73: EF)						
C1			C91-0713-05	CERAMIC 2.2PF K		
C2			CC45FSL1H22[illegible]	CERAMIC 22PF J		
C3			C91-0757-05	CERAMIC 1000PF K		
C4			C91-0720-05	CERAMIC 8.2PF K		
C5			C91-0718-05	CERAMIC 5.6PF K		
C6			C91-0716-05	CERAMIC 3.9PF K		
C7			C91-0720-05	CERAMIC 8.2PF K		
C8			C91-0749-05	CERAMIC 220PF K		
C9			C90-1332-05	NP-ELEC 10UF 25WV		
C10			CK45FF1H103Z	CERAMIC 0.010UF Z		
C11			CC45FSL1H020C	CERAMIC 2.0PF C		
C12			CK45FB1H102K	CERAMIC 1000PF K		
C14			C91-0713-05	CERAMIC 2.2PF K		
C15			CK45FF1H103Z	CERAMIC 0.010UF Z		
C16			CC45FUJ1H080D	CERAMIC 8.0PF D		
C17			C91-0733-05	CERAMIC 33PF J		
C18			CC45FSL1H150J	CERAMIC 15PF J		
C19			C91-0713-05	CERAMIC 2.2PF K		
C20			C91-0737-05	CERAMIC 47PF J		
C21			CC45FSL1H101J	CERAMIC 100PF J		
C22			CK45FB1H102K	CERAMIC 1000PF K		
C[illegible] ,25			CK45FF1H103Z	CERAMIC 0.010UF Z		
C[illegible]			CK45FF1H223Z	CERAMIC 0.022UF Z		
C[illegible] ,28			CEO4KW1H010M	ELECTRO 1.0UF 50WV		
C[illegible] ,30			CK45FF1H223Z	CERAMIC 0.022UF Z		

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C31			CC45FSL1H101J	CERAMIC	100PF	J		
C32 -35			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C36			C91-0085-05	CERAMIC	0.022UF	N		
C37			CE04KW1C220M	ELECTRO	22UF	16WV		
C38			C91-0769-05	CERAMIC	0.01UF	M		
C39		*	CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C40			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C41			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C42			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C43			C91-0085-05	CERAMIC	0.022UF	N		
C44			CF92FV1H153J	MF	0.015UF	J		
C45			CE04KW1V100M	ELECTRO	10UF	35WV		
C46			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C47			CK45FB1H561K	CERAMIC	560PF	K		
C48			CF92FV1H473J	MF	0.047UF	J		
C49			CC45FSL1H221J	CERAMIC	220PF	J		
C50 ,51			CE04KW1C220M	ELECTRO	22UF	16WV		
C52			C91-0769-05	CERAMIC	0.01UF	M		
C53			CC93FCH1H471J	CERAMIC	470PF	J		
C54 ,55			CK45FB1H102K	CERAMIC	1000PF	K		
C56 ,57		*	CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C58 ,59			CF92FV1H472J	MF	4700PF	J		
C60			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C61		*	CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C62			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C63 ,64			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C65 -67			C91-0085-05	CERAMIC	0.022UF	N		
C68			C91-0769-05	CERAMIC	0.01UF	M		
C69			CC45FTH1H101J	CERAMIC	100PF	J		
C70			CC45FCH1H151J	CERAMIC	150PF	J		
C71			CC93FCH1H221J	CERAMIC	220PF	J		
C72			CC93FCH1H391J	CERAMIC	390PF	J		
C75			CE04KW1V100M	ELECTRO	10UF	35WV		
C76 -78			CK45FB1H102K	CERAMIC	1000PF	K		
C79			CC45FCH1H270J	CERAMIC	27PF	J	TE	
C80			CC45FCH1H560J	CERAMIC	56PF	J	TE	
C81			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C82			CE04LW1A101M	ELECTRO	100UF	10WV		
C83 ,84			CE04KW1V100M	ELECTRO	10UF	35WV		
C85		*	CE04KW1C101M	ELECTRO	100UF	16WV		
C86			CE04KW1V100M	ELECTRO	10UF	35WV		
C87		*	CE04KW1C221M	ELECTRO	220UF	16WV		
C88			CE04KW1E221M	ELECTRO	220UF	25WV		
C89			CE04KW1E102M	ELECTRO	1000UF	25WV		
C90			CE04KW1E101M	ELECTRO	100UF	25WV		
C91			CE04KW1C470M	ELECTRO	47UF	16WV		
C92			CE04KW0J102M	ELECTRO	1000UF	6.3WV		
C93			C90-1400-05	NP-ELEC	10UF	50WV		
C94			CE04KW1V100M	ELECTRO	10UF	35WV		
C95		*	CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C98			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C99			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C100		*	CE04KW0J222M	ELECTRO	2200UF	6.3WV		
C101			CE04KW1V100M	ELECTRO	10UF	35WV		
C103			CK45FF1H103Z	CERAMIC	0.010UF	Z		

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C104		*	CE04KW1C101M	ELECTRO 100UF 16WV		
C106,107			CC45FSL1H331J	CERAMIC 330PF J		
C109,110			CK45FF1H103Z	CERAMIC 0.010UF Z		
C113,114			CC45FSL1H181J	CERAMIC 180PF J		
TC1			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF		
TC2			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF		
TC3			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
TC4			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF		
TC5			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
E1	2B		E20-0318-05	SCREW TERMINAL BOARD(2P)		
E2	1B		E13-0235-05	PHONO JACK (2P)		
			L01-5832-05	POWER TRANSFORMER		
			L01-8642-05	POWER TRANSFORMER		
CF1 ,2			L72-0536-05	CERAMIC FILTER		
CF3			L72-0099-05	CERAMIC FILTER		
CF4			L72-0096-05	CERAMIC FILTER		
L1			L31-0581-05	FM-RF COIL		J
L1		*	L31-0594-05	FM-RF COIL		S
L2			L31-0520-05	FM-RF COIL		
L3			L31-0580-05	FM-RF COIL		
L4 ,5			L31-0579-05	FM-RF COIL		
L6			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)		
L7			L32-0318-05	FM OSCILLATING COIL		
L8			L30-0427-15	FM IFT		
L9			L30-0439-15	FM IFT		
L10			L30-0362-05	AM IFT		
L11			L79-0125-05	LC FILTER		
L12			L79-0750-05	LC FILTER		
L13			L31-0499-05	LW-RF COIL		
L14			L31-0509-05	MW-RF COIL		
L15			L32-0288-05	LW OSCILLATING COIL		
L16			L32-0277-15	MW OSCILLATING COIL		
L17			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L18 -20			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)		
X1			L77-0573-05	CRYSTAL RESONATOR(4.5MHZ)		
X2			L78-0202-05	RESONATOR (400KHZ)		
R100			RD14GB2E220J	FL-PROOF RD 22 J 1/4W		
R101			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R104,105			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R123			RS14KB3A221J	FL-PROOF RS 220 J 1W		
R124			RS14KB3A471J	FL-PROOF RS 470 J 1W		
R171			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
VR1			R12-3126-05	TRIMMING POT.(10K)		
VR2			R12-3130-05	TRIMMING POT.(33K)		
VR3			R12-1089-05	TRIMMING POT.(4.7K)		
VR4			R12-5058-05	TRIMMING POT.(100K)		
S1 -20	1A,2A		S40-1064-05	PUSH SWITCH		
			CPF2232GR	FLUORESCENT INDICATOR TUBE		
			FIP8BRM7	FLUORESCENT INDICATOR TUBE		
D1 -4			KV1310-4	VARIABLE CAPACITANCE DIODE		
D5 ,6			KV1236(Z2)	VARIABLE CAPACITANCE DIODE		
D7 -10			HSS104	DIODE	TE	
D7 -10			1N4148	DIODE	EF	

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PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D7 -10			1SS133	DIODE	TE	
D11 ,12			S5566B	DIODE	TE	
D11 ,12			1N4004	DIODE	EF	
D13 ,14			HSS104A	DIODE		
D13 ,14			1SS131	DIODE		
D15			BZX55-C13	DIODE	EF	
D15			HZS13N(B2)	ZENER DIODE	TE	
D15			RD13ES(B2)	ZENER DIODE	TE	
D16			BZX55-C5V6	DIODE	EF	
D16			HZS5.6N(B2)	ZENER DIODE	TE	
D16			RD5.6ES(B2)	ZENER DIODE	TE	
D17			BZX55-C5V1	DIODE	EF	
D17			HZS5.1N(B)	ZENER DIODE	TE	
D17			RD5.1ES(B)	ZENER DIODE	TE	
D18 ,19			HSS104	DIODE	TE	
D18 ,19			1N4148	DIODE	EF	
D18 ,19			1SS133	DIODE	TE	
D20			BZX55-C10	DIODE	EF	
D20			HZS10N(B)	ZENER DIODE	TE	
D20			RD10ES(B)	ZENER DIODE	TE	
D21 -31			HSS104	DIODE	TE	
D21 -31			1N4148	DIODE	EF	
D21 -31			1SS133	DIODE	TE	
D39 -42			HSS104	DIODE	TE	
D39 -42			1N4148	DIODE	EF	
D39 -42			1SS133	DIODE	TE	
D43			BZX55-C6V2	DIODE	EF	
D43			HZS6.2N(B2)	ZENER DIODE	TE	
D43			RD6.2ES(B2)	ZENER DIODE	TE	
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3			CX7925B	IC(FREQUENCY SYNTHESIZER PLL)		
IC4			UPD7538AC-041	IC(MICROPROCESSOR)		
Q1			3SK73(GR)	FET		
Q2			2SC1923(Q)	TRANSISTOR		
Q3 ,4			2SC1923	TRANSISTOR		
Q5			2SK161(Y,GR)	FET		
Q6			2SC1923(R,Q)	TRANSISTOR		
Q7 ,8			2SC1845(F,E)	TRANSISTOR		
Q9			2SK163(L,M)	FET	TE	
Q9			2SK364(GR,BL)	FET	TE	J
Q10 -15			JC501(P,Q)	TRANSISTOR	EF	
Q10 -15			2SC1740S(Q,R)	TRANSISTOR	TE	
Q10 -15			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q16 ,17			2SK163(L,M)	FET	TE	
Q16 ,17			2SK364(GR,BL)	FET	TE	
Q18 ,19			JC501(P,Q)	TRANSISTOR	EF	
Q18 ,19			2SC1740S(Q,R)	TRANSISTOR	TE	
Q18 ,19			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q20			JA101(P,Q)	TRANSISTOR	EF	
Q20			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q20			2SA933S(Q,R)	TRANSISTOR	TE	
Q21 ,23			2SD1302(S,T)	TRANSISTOR		
Q25 -27			JA101(P,Q)	TRANSISTOR	EF	
Q25 -27			2SA733(A)(Q,P)	TRANSISTOR	TE	

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⚠ indicates safety critical components.

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Q25 -27			2SA933S(Q,R)	TRANSISTOR	TE	
Q28			2SD1266(Q,P)	TRANSISTOR		
Q29			JA101(P,Q)	TRANSISTOR	EF	
Q29			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q29			2SA933S(Q,R)	TRANSISTOR	TE	
Q30			JC501(P,Q)	TRANSISTOR	EF	
Q30			2SC1740S(Q,R)	TRANSISTOR	TE	
Q30			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q31			2SC2003(L,K)	TRANSISTOR		
Q32			JA101(P,Q)	TRANSISTOR	EF	
Q32			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q32			2SA933S(Q,R)	TRANSISTOR	TE	
Q33			JC501(P,Q)	TRANSISTOR	EF	
Q33			2SC1740S(Q,R)	TRANSISTOR	TE	
Q33			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q34 ,35			JA101(P,Q)	TRANSISTOR	EF	
Q34 ,35			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q34 ,35			2SA933S(Q,R)	TRANSISTOR	TE	
Q36			JC501(P,Q)	TRANSISTOR	EF	
Q36			2SC1740S(Q,R)	TRANSISTOR	TE	
Q36			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q37			JA101(P,Q)	TRANSISTOR	EF	
Q37			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q37			2SA933S(Q,R)	TRANSISTOR	TE	
Q38 ,39			JC501(P,Q)	TRANSISTOR	EF	
Q38 ,39			2SC1740S(Q,R)	TRANSISTOR	TE	
Q38 ,39			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q32			2SA933S(Q,R)	TRANSISTOR		S

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SPECIFICATIONS

FM tuner section (IHF)

Tuning frequency range ..... 87.5 MHz – 108 MHz
Usable sensitivity (MONO) ..... 0.95 μV, 10.8 dBf
Total harmonic distortion (at 1 kHz)
MONO: ..... 0.3 %
STEREO: ..... 0.3 %
Signal-to-Noise ratio (at 1 kHz, 65 dBf input)
MONO: ..... 76 dB
STEREO: ..... 72 dB
Alternate channel selectivity (±400 kHz) ..... 50 dB
Stereo separation at 1 kHz ..... 40 dB
Frequency response 30 Hz – 15 kHz ..... +0.5 dB, −2 dB
Output level/impedance (75 kHz dev.) ..... 0.6 V/3.3 kohms

MW tuner section

Tuning frequency range ..... 531 kHz – 1602 kHz
Usable sensitivity ..... 14 μV, 400 μV/m
Signal-to-Noise ratio (30% mod. 1mV input) ..... 50 dB
Total harmonic distortion ..... 0.5 %
Selectivity ..... 25 dB

LW tuner section

Tuning frequency range ..... 153 kHz – 281 kHz
Usable sensitivity ..... 17 μV, 800 μV/m
Signal-to Noise ratio (30% mod. 1mV input) ..... 50 dB
Total harmonic distortion ..... 0.5 %
Selectivity ..... 30 dB

General

Power consumption ..... 7 W
Dimensions ..... W: 440 mm (17-5/16")
H: 74 mm (2-15/16")
D: 267 mm (10-1/2")
Weight (Net) ..... 3.1 kg (6.8 lb)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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